

**CLAIMS:**

What is claimed is:

- 5 1. A transcoder processing system implemented method for converting documents based on semantic characteristics, comprising:
- receiving a request for a document from a client;
- 10 passing the request to an origin server;
- receiving the requested document from the origin server;
- performing a syntactical transcoding on the requested document, wherein at least one semantic
- 15 characteristic of the requested document is converted; and
- sending the requested document to the client.
2. The transcoder processing system implemented method recited in claim 1 further comprises receiving at least
- 20 one semantic characteristic preference from the client, wherein the at least one semantic characteristic is automatically converted based on the at least one semantic characteristic preference.
- 25 3. The transcoder processing system implemented method recited in claim 2, wherein a semantic characteristic preference specified by the client is readability level of the requested document.
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10. The transcoder processing system implemented method recited in claim 9, wherein the at least one semantic

characteristic is the conformance with specified content filtering of the requested document.

11. The transcoder processing system implemented method  
5 recited in claim 2, wherein a semantic characteristic preference specified by the client is the natural language of the requested document.

12. The transcoder processing system implemented method  
10 recited in claim 11, wherein the at least one semantic characteristic is the natural language of the requested document.

13. The transcoder processing system implemented method  
15 recited in claim 2 further comprises comparing the at least one semantic characteristic preference received from the client with semantic conversion features supported by the transcoder processing system.

14. The transcoder processing system implemented method  
20 recited in claim 13, wherein the step of passing the request to a server further comprises passing the request to a transcoding server on the basis of the comparison.

15. A transcoder processing system implemented method  
25 for converting documents based on semantic characteristics, comprising:

receiving at least one semantic characteristic preference from a client;

30 syntactically transcoding a document; and  
converting at least one of the semantic characteristics of the document, wherein converting

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is based on the at least one semantic characteristic preference.

16. The transcoder processing system implemented method  
5 recited in claim 15, wherein the at least one semantic  
characteristic preference is one of readability level,  
locale, content filtering, compliance with governmental  
regulations, and natural language.

10 17. The transcoder processing system implemented method  
recited in claim 15, further comprising:

transcoding the document using one of a  
protocol transcoder and a device transcoder.

15 18. A transcoder processing system implemented method  
for converting documents based on semantic  
characteristics, comprising:

requesting a document from an origin server  
from a client;

20 transmitting at least one semantic  
characteristic preference from a client, wherein the  
at least one semantic characteristic preference is  
one of readability level, locale, content filtering,  
compliance with governmental regulations, and  
25 natural language; and

receiving the document, wherein the document  
has been syntactically transcoded and converted  
using the at least one semantic characteristic  
preference.

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19. A transcoder processing system for converting  
documents based on semantic characteristics, comprising:

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receiving means for receiving a request for a document from a client;

passing means for passing the request to an origin server;

5 receiving means for receiving the requested document from the origin server;

performing means for performing a syntactical transcoding on the requested document, wherein at least one semantic characteristic of the requested document is converted; and

10 sending means for sending the converted document to the requesting client.

20. The transcoder processing system recited in claim 19 further comprises receiving means for receiving at least one semantic characteristic preference from the client.

21. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is readability level of the requested document.

22. The transcoder processing system recited in claim 21, wherein the at least one semantic characteristic is the readability level of the requested document.

23. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is locale.

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25. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is conformance with specified governmental regulations by the requested document.

10 26. The transcoder processing system recited in claim  
25, wherein the at least one semantic characteristic is  
the conformance with specified governmental regulations  
of the requested document.

15 27. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is conformance with specified content filtering in the requested document.

20 28. The transcoder processing system recited in claim  
27, wherein the at least one semantic characteristic is  
the conformance with specified content filtering of the  
requested document.

25 29. The transcoder/processing system recited in claim  
28, wherein a semantic characteristic preference  
specified by the client is the natural language of the  
requested document.

30 30. The transcoder processing system recited in claim  
29, wherein the at least one semantic characteristic is  
the natural language of the requested document.

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31. The transcoder processing system recited in claim 19 further comprises comparing means for comparing the at least one semantic characteristic preference received  
5 from the client with semantic conversion features supported by the transcoder processing system.

32. The transcoder processing system recited in claim 31, wherein the passing means for passing the request to  
10 a server further comprises passing means for passing the request to a transcoding server on the basis of the comparison.

33. A transcoder processing system for converting  
15 documents based on semantic characteristics, comprising:  
receiving means for receiving at least one semantic characteristic preference from a client;  
syntactical means for syntactically transcoding a document; and  
20 converting means for converting at least one of the semantic characteristics of the document, wherein converting is based on the at least one semantic characteristic preference.

25 34. The transcoder processing system recited in claim 33, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language.

30 35. The transcoder processing system recited in claim 33, further comprising:

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transcoding means for transcoding the document using one of a protocol transcoder and a device transcoder.

- 5 36. A transcoder processing system for converting documents based on semantic characteristics, comprising:  
requesting means for requesting a document from an origin server from a client;

10 transmitting means for transmitting at least one semantic characteristic preference from a client, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language; and

15 receiving means for receiving the document, wherein the document has been syntactically transcoded and converted using the at least one semantic characteristic preference.

- 20 37. A transcoder processing computer program product for converting documents based on semantic characteristics, comprising:

receiving instructions for receiving a request for a document from a client;

25 passing instructions for passing the request to an origin server;

receiving instructions for receiving the requested document from the origin server;

30 performing instructions for performing a syntactical transcoding on the requested document, wherein at least one semantic characteristic of the requested document is converted; and

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sending instructions for sending the converted document to the requesting client.

38. A transcoder processing computer program product for  
5 converting documents based on semantic characteristics, comprising:

requesting instructions for requesting a document from an origin server from a client;

10 transmitting instructions for transmitting at least one semantic characteristic preference from a client, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language; and

15 receiving instructions for receiving the document, wherein the document has been syntactically transcoded and converted using the at least one semantic characteristic preferences.

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